

**INFUSION SYSTEMS FOR CREATING
MICROENVIRONMENTS IN A LIVING BODY**

Abstract of the Invention

The invention provides implantable infusion systems, including apparatus and methods, for prolonged infusion of a carefully designed medicament composition to create and maintain a comprehensive microenvironment at a target area in a living body. The composition may include living cells to treat a particular disease and which deliver exogenous substances to maintain a microenvironment in the living body. The invention contemplates medicament compositions that include stem cells (neuro or otherwise), including homographs and allographs, adhesive peptides, substances which inhibit fibroblast growth, genetically modified cells which produce useful exogenous substances, nerve growth factor (NGF), previously harvested cells from a living body. In another aspect, the invention contemplates the replication of cells in a reservoir, for example, to keep cells alive in a dormant state until infusion.